Anti-intestinal alkaline phosphatase Antibody [PSH17-82] - BSA and Azide free

HA751641

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	WB
Molecular Wt:	Predicted band size: 57 kDa
Clone number:	PSH17-82

Description: Alkaline phosphatase, intestinal, also known as ALPI, is a type of alkaline phosphatase that in humans is encoded by the ALPI gene. Intestinal alkaline phosphatase is an endogenous enzyme that maintains gut homeostasis. It detoxifyies bacterial toxins, dephosphorylates phosphorylated nucleotides, regulates lipid absorption in the intestine, and regulates the microbiome in the intestine. In addition to these functions, intestinal alkaline phosphatase can also modulate bicarbonate secretion and can modulate the pH of the duodenum.

Immunogen: Recombinant protein within human ALPI aa 1-503.

Positive control: Saos-2 cell lysate, Mouse small intestine tissue lysate.

Subcellular location: Cell membrane.

Database links: SwissProt: P09923 Human

Recommended Dilutions:

WB	1:5,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

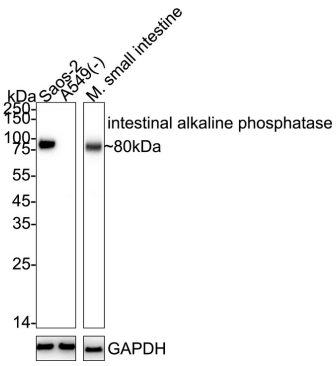

Fig1: Western blot analysis of intestinal alkaline phosphatase on different lysates with Rabbit anti-intestinal alkaline phosphatase antibody (HA751641) at 1/5,000 dilution.

Lane 1: Saos-2 cell lysate (20 µg/Lane)
Lane 2: A549 cell lysate (negative) (20 µg/Lane)
Lane 3: Mouse small intestine tissue lysate (30 µg/Lane)

Predicted band size: 57 kDa
Observed band size: 80 kDa

Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751641) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Background References

1. Santos GM et al. Intestinal Alkaline Phosphatase: A Review of This Enzyme Role in the Intestinal Barrier Function. Microorganisms. 2022 Mar
2. Singh SB et al. Role of Intestinal Alkaline Phosphatase in Innate Immunity. Biomolecules. 2021 Nov